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5. (Twice Amended) A high frequency power amplifier, comprising:
a transistor for amplifying signals and having an input side; and
an input-side impedance matching circuit connected between the input side of said transistor and a signal input terminal of the amplifier, wherein said input-side impedance matching circuit provides an impedance of a substantially short-circuit load with respect to odd number harmonics of a fundamental wave of a high frequency signal.

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7. (Twice Amended) The high frequency power amplifier according to claim 6, wherein said input-side impedance matching circuit comprises a third harmonic reflecting circuit, a second harmonic processing circuit, and a fundamental wave matching circuit, disposed sequentially from the signal input terminal.

8. (Twice Amended) The high frequency power amplifier according to claim 5, wherein said input-side impedance matching circuit comprises a third harmonic reflecting circuit, a second harmonic processing circuit, and a fundamental wave matching circuit, disposed sequentially from ~~a~~ the signal input terminal.
